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Fig. 1

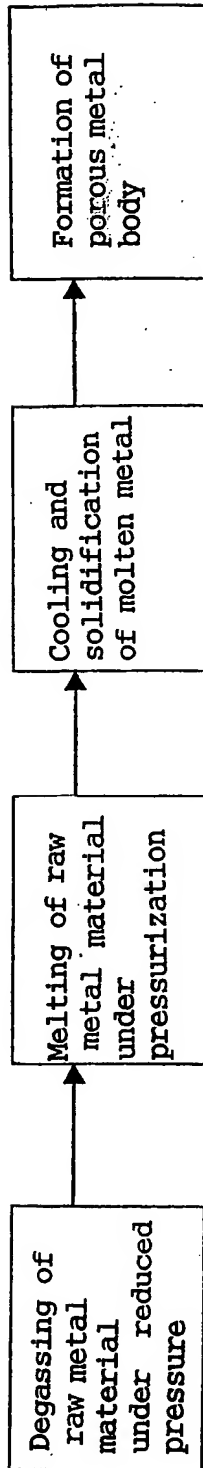


Fig. 2

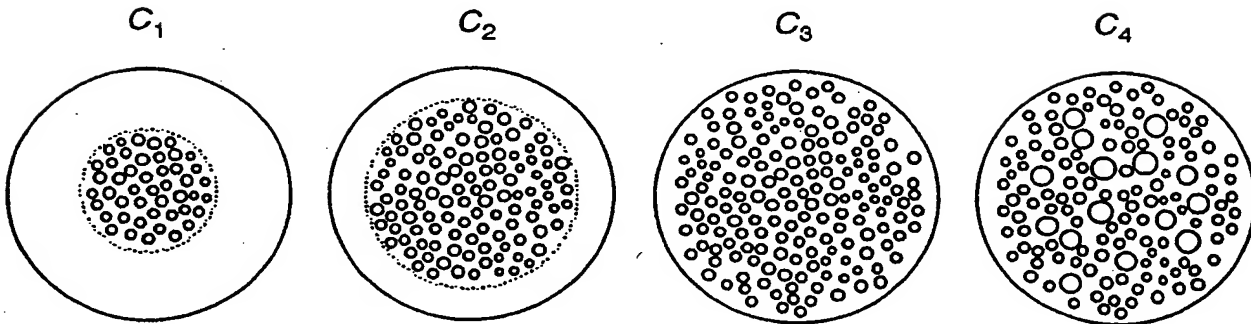
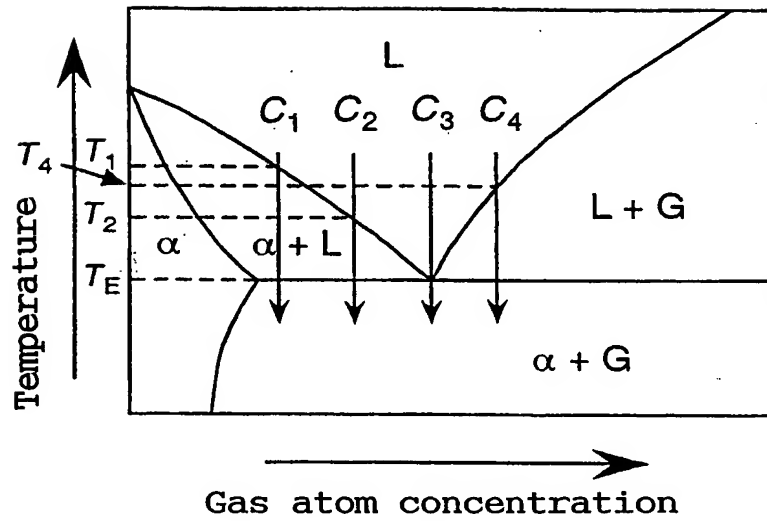
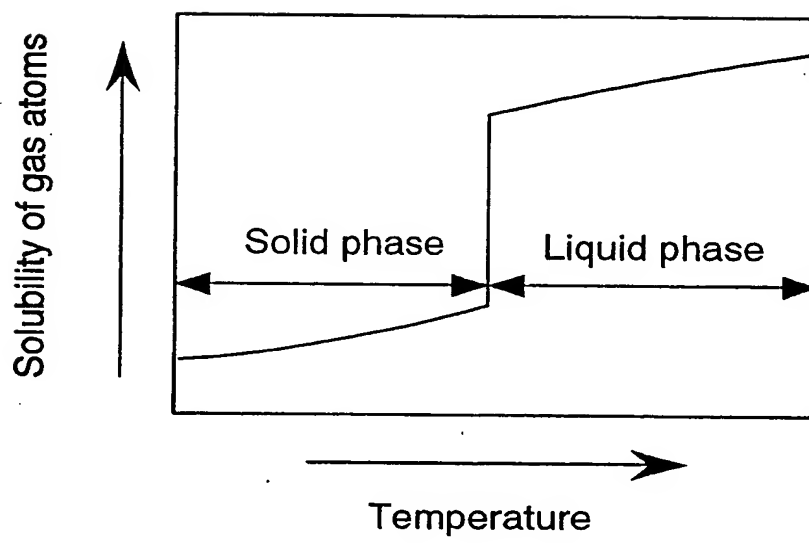


Fig. 3



Nitrogen solubility in iron

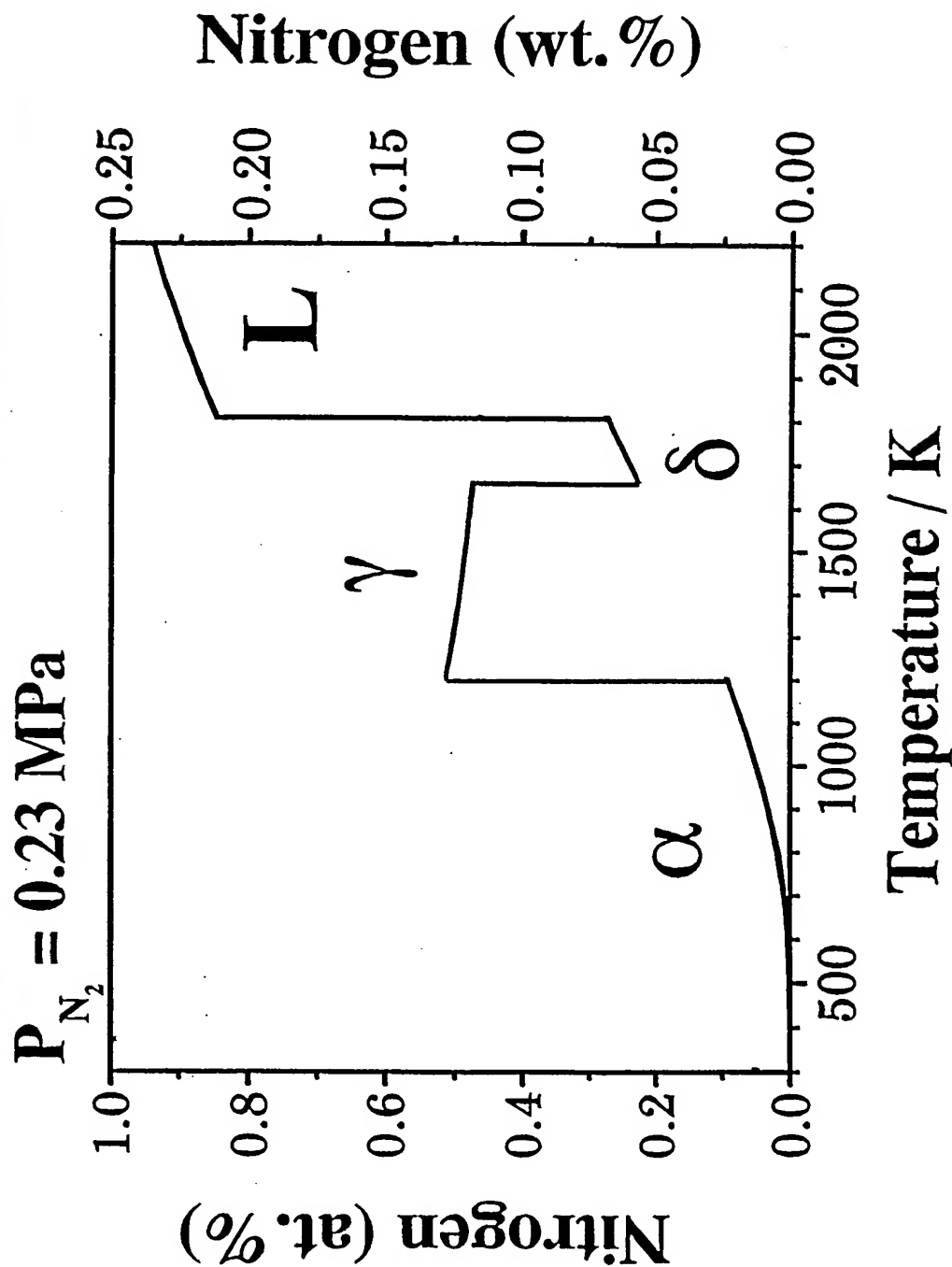
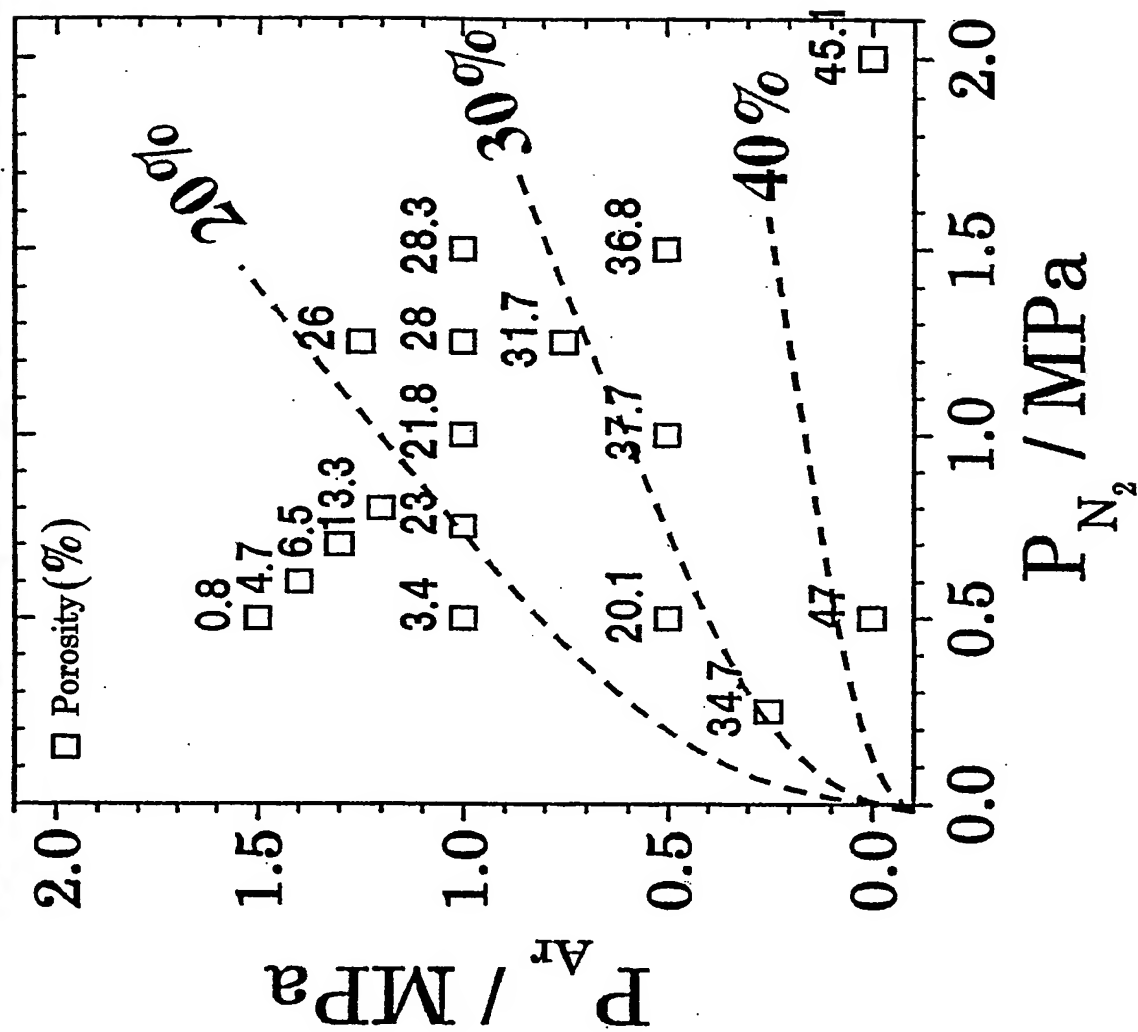


Fig. 4

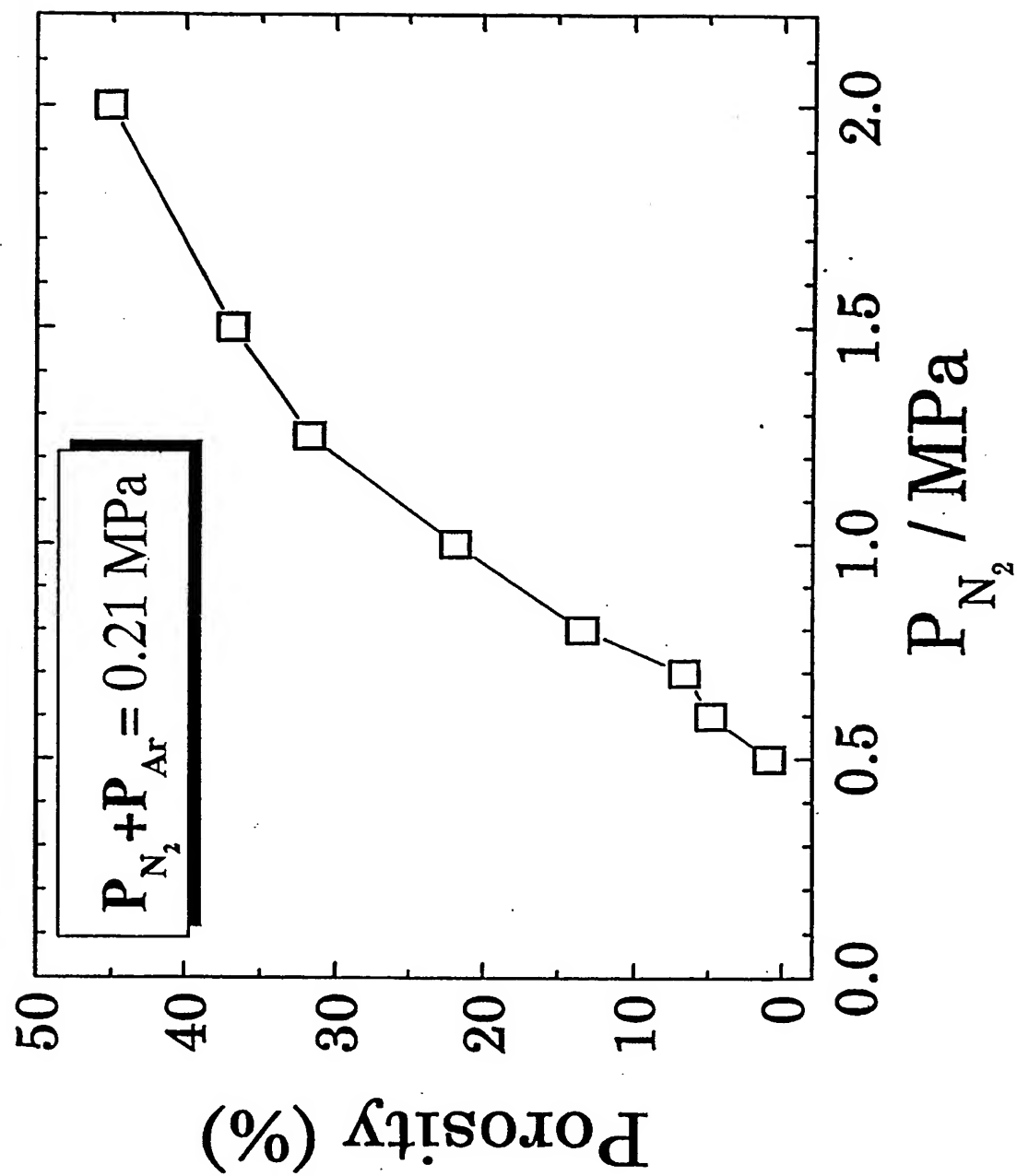
Fig. 5

Experimental results



Nitrogen gas pressure vs. porosity

Fig. 6



Nitrogen analysis results

Fig. 7

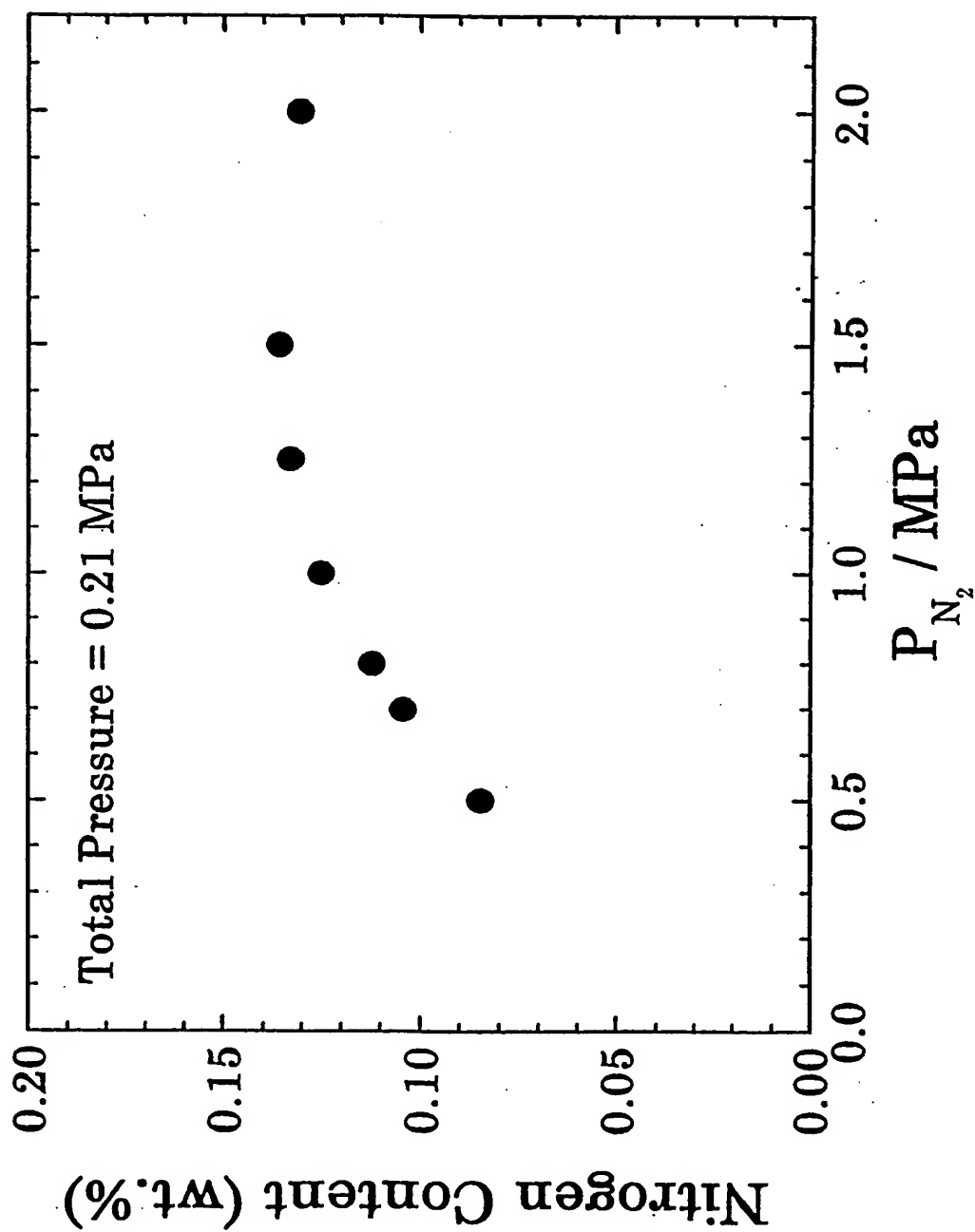


Fig. 8

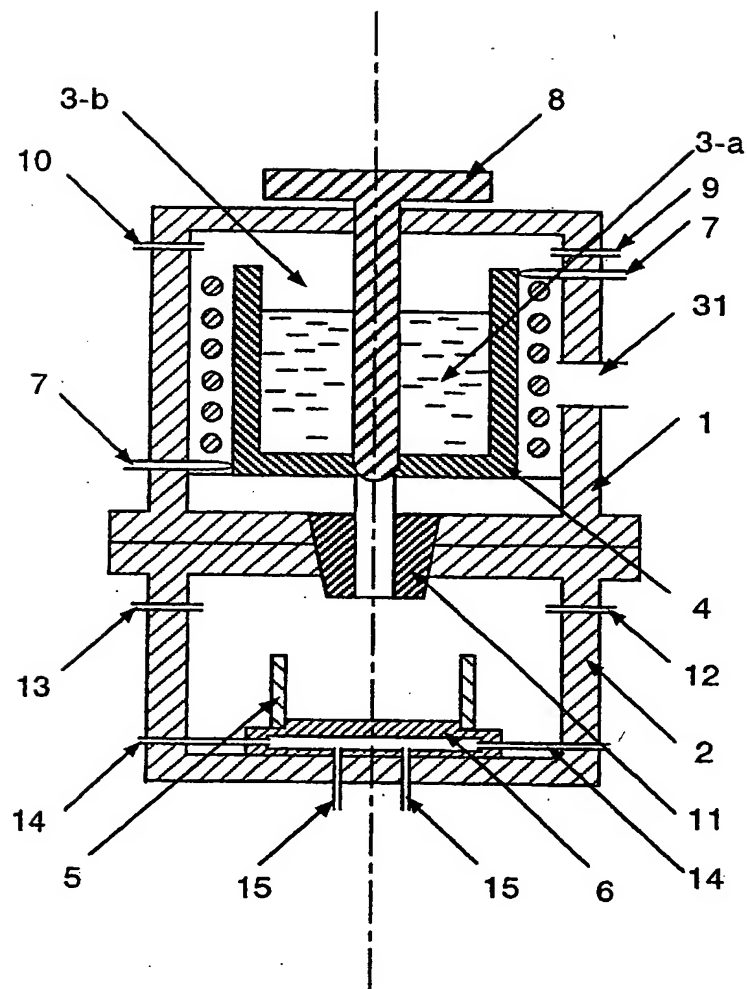


Fig. 9

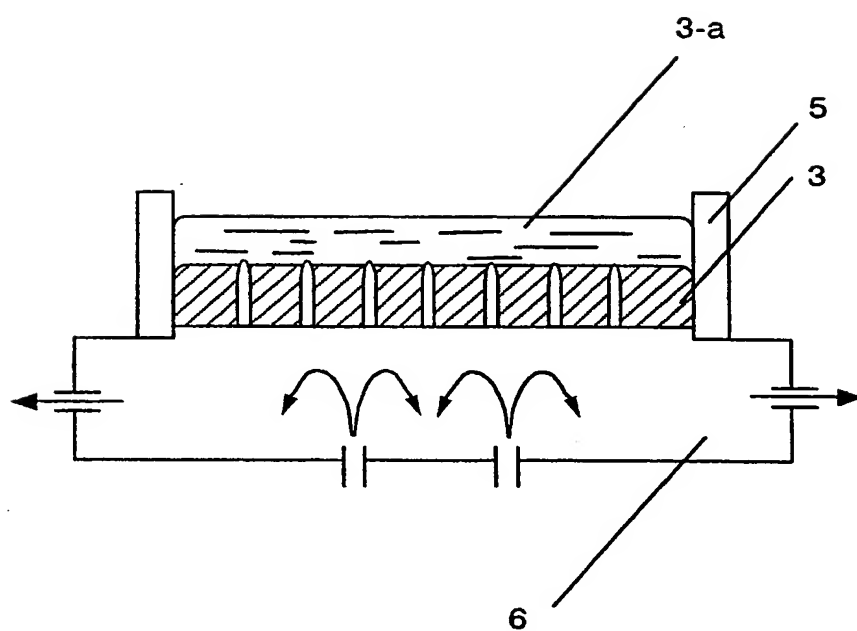


Fig. 10

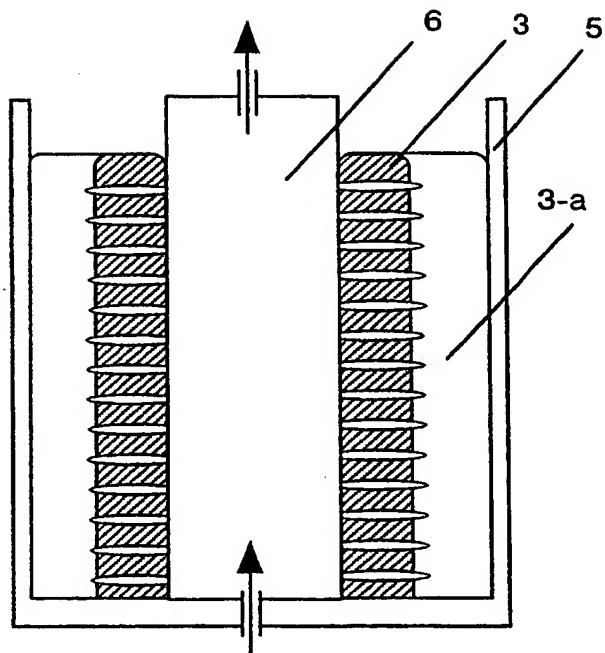


Fig. 11

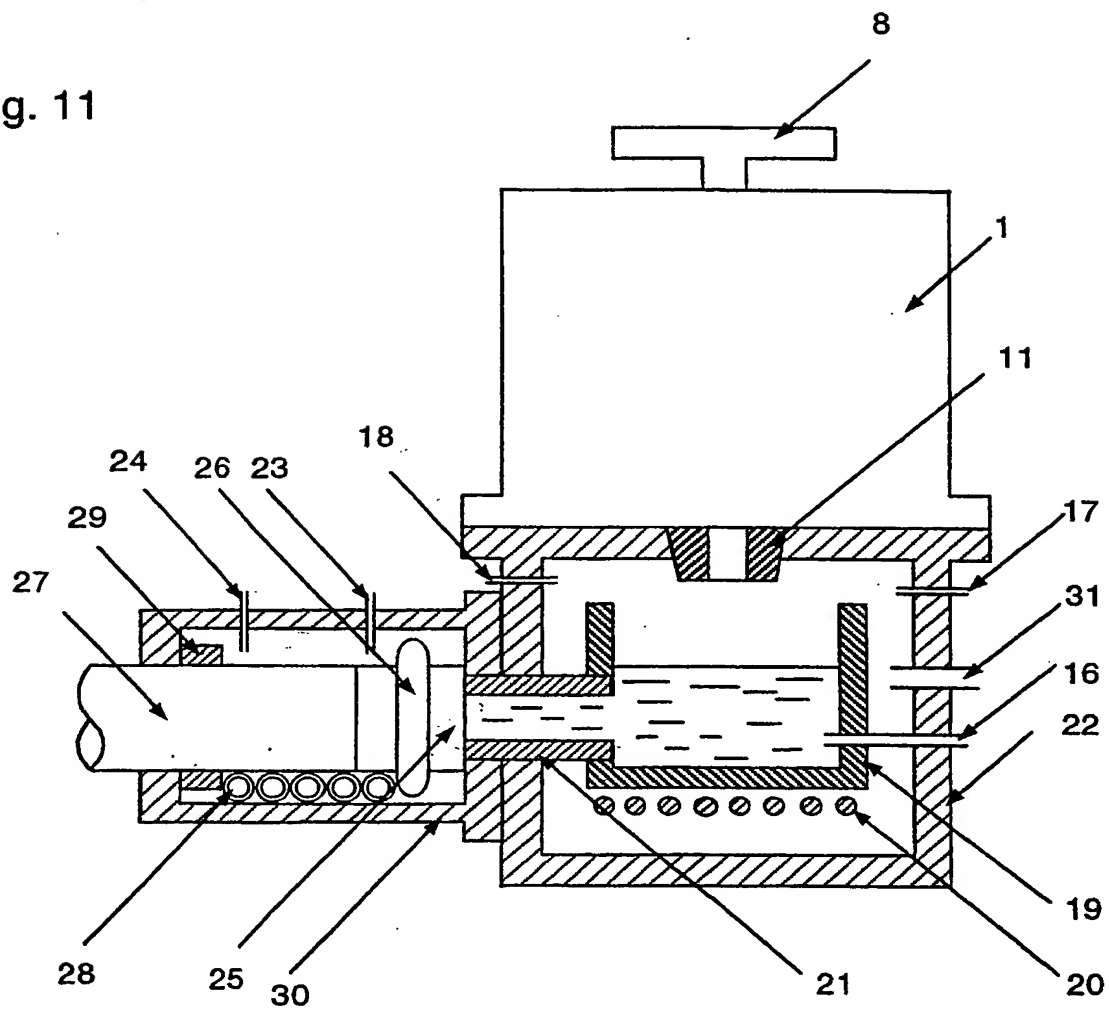


Fig. 12

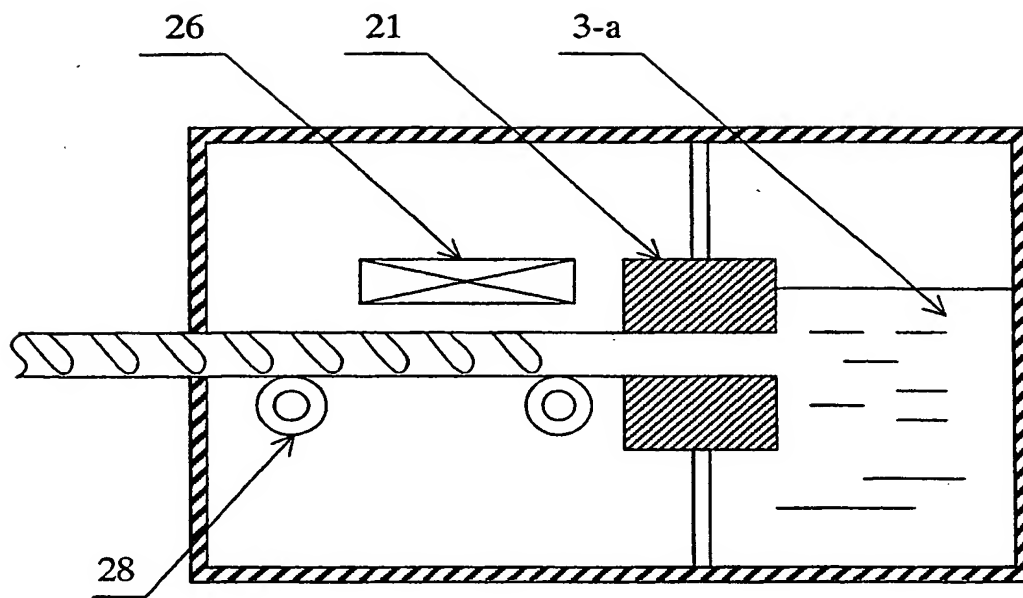


Fig. 13

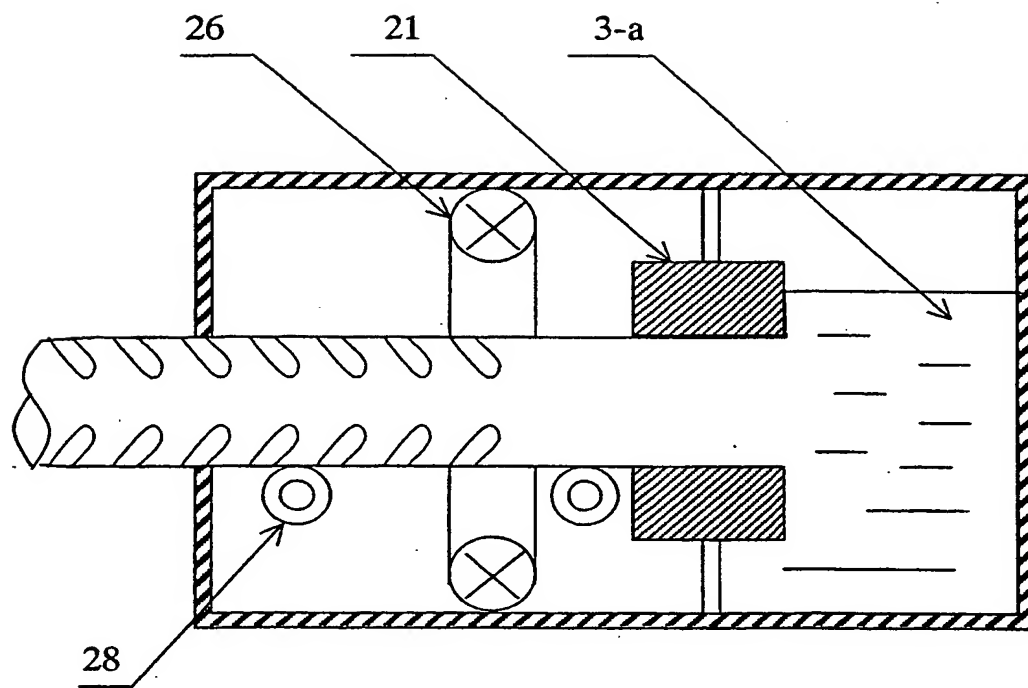
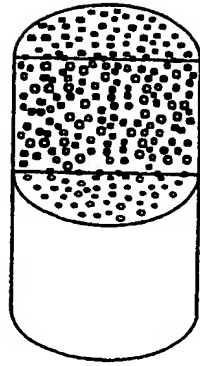
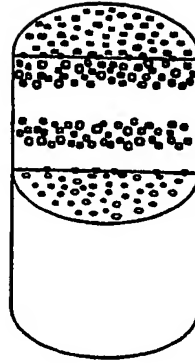


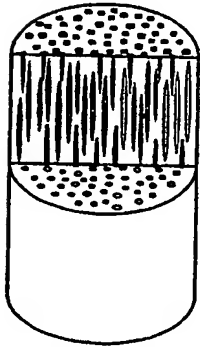
Fig. 14



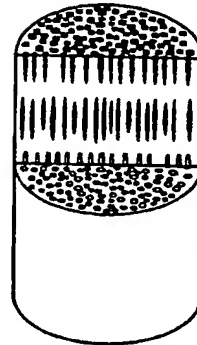
(a)



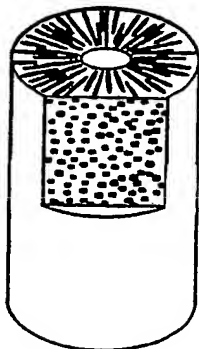
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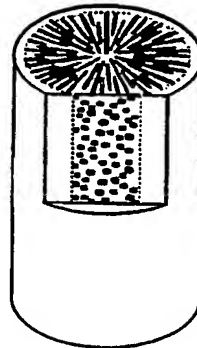
(c)



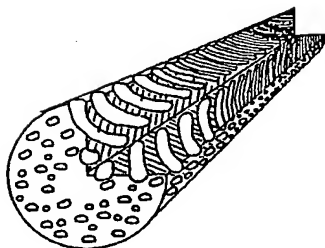
(d)



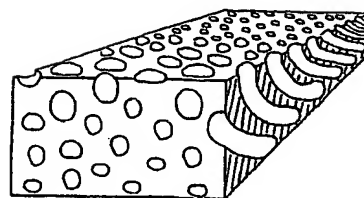
(e)



(f)



(g)



(h)

FIG. 15

Copper

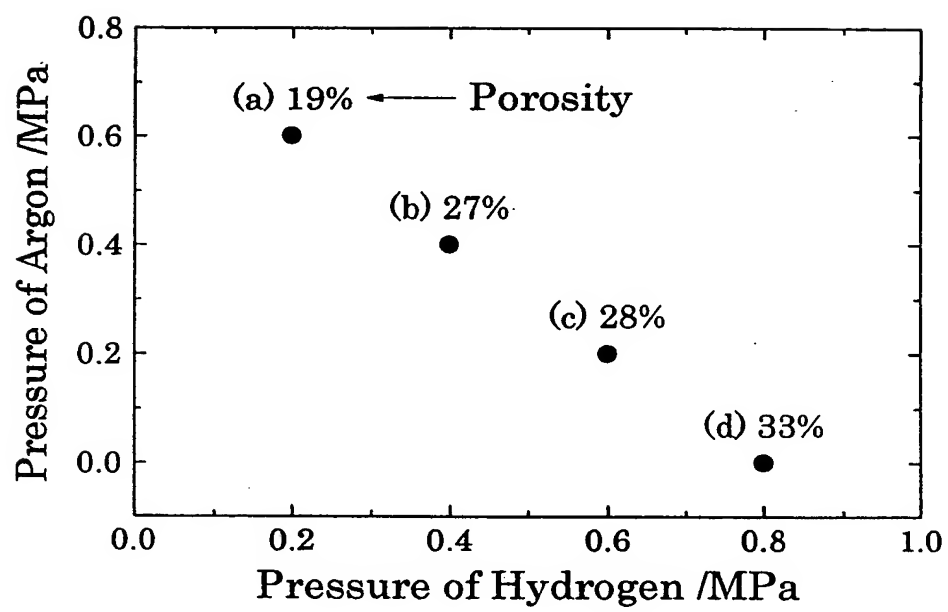
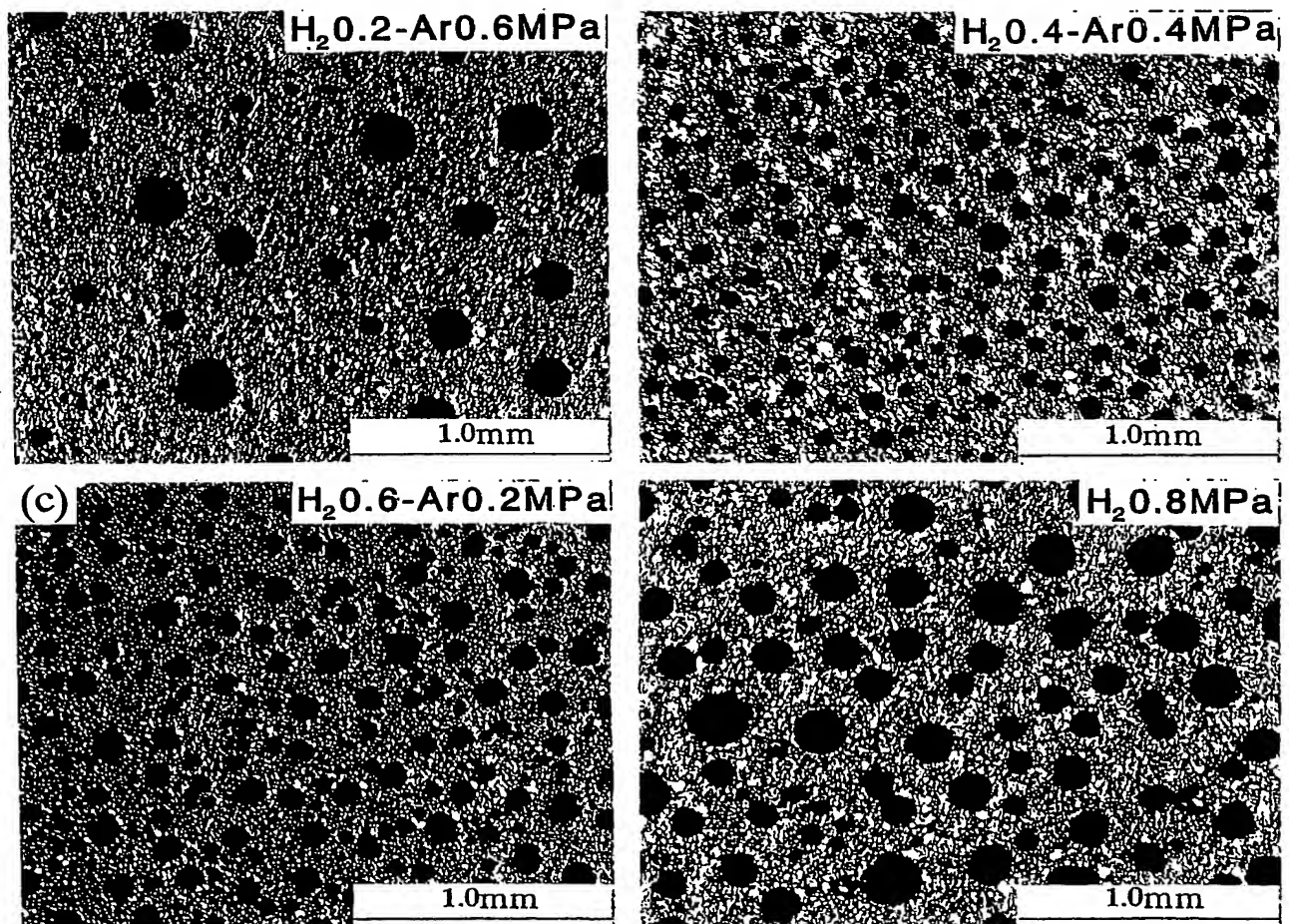


FIG. 16



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FIG. 17

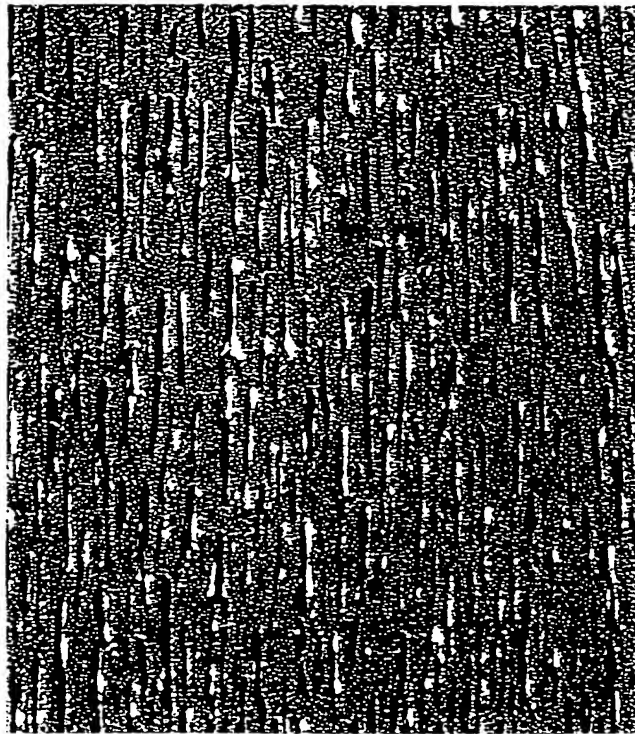


FIG. 18

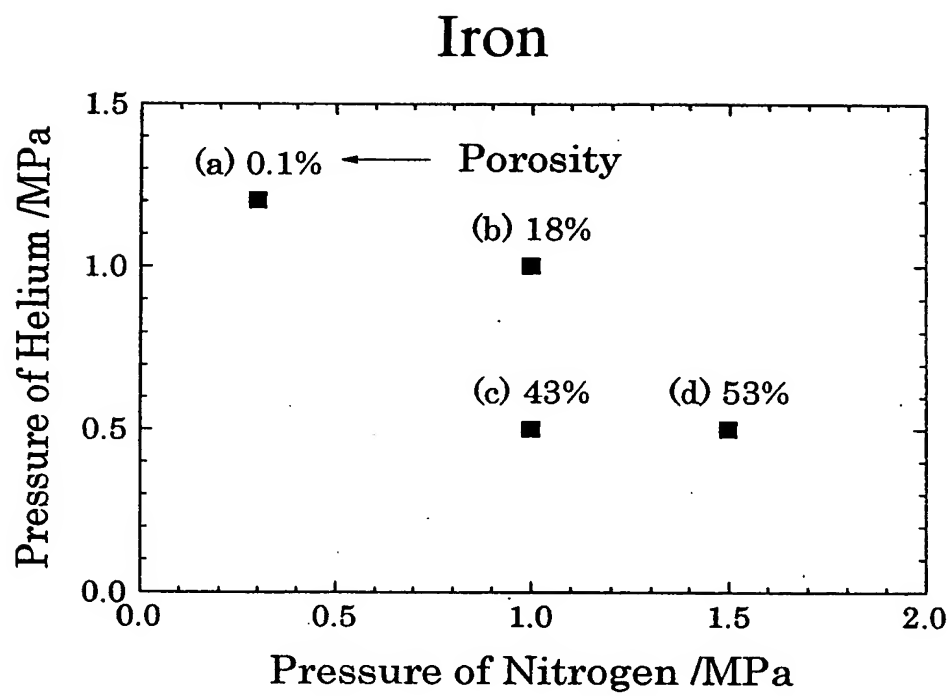
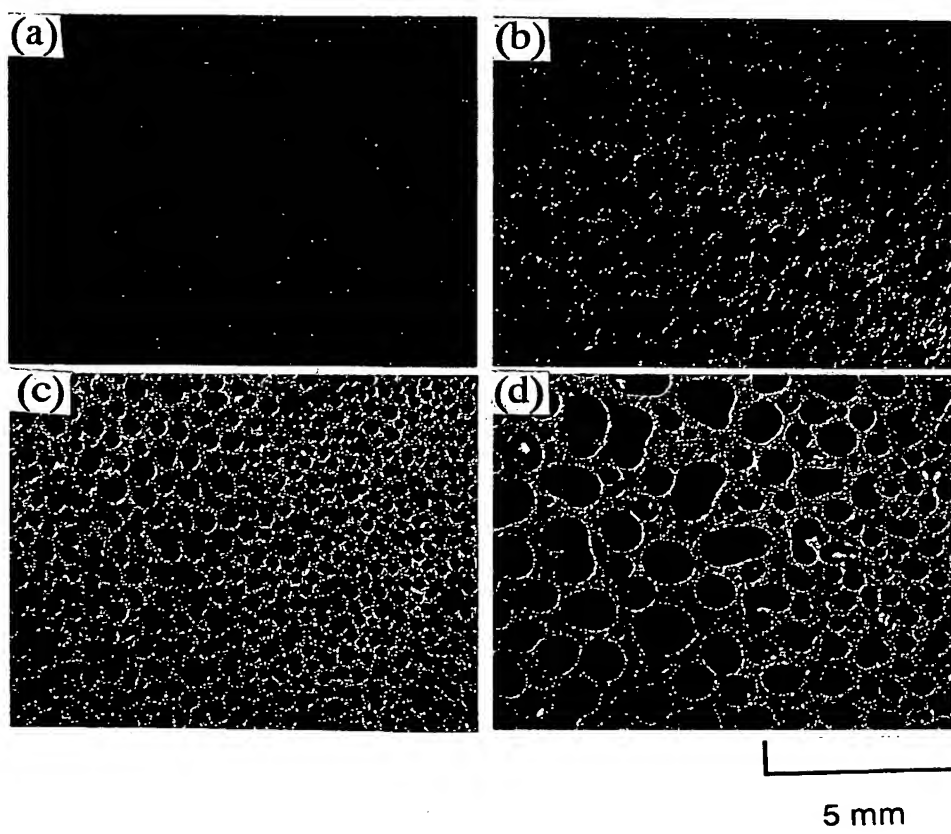
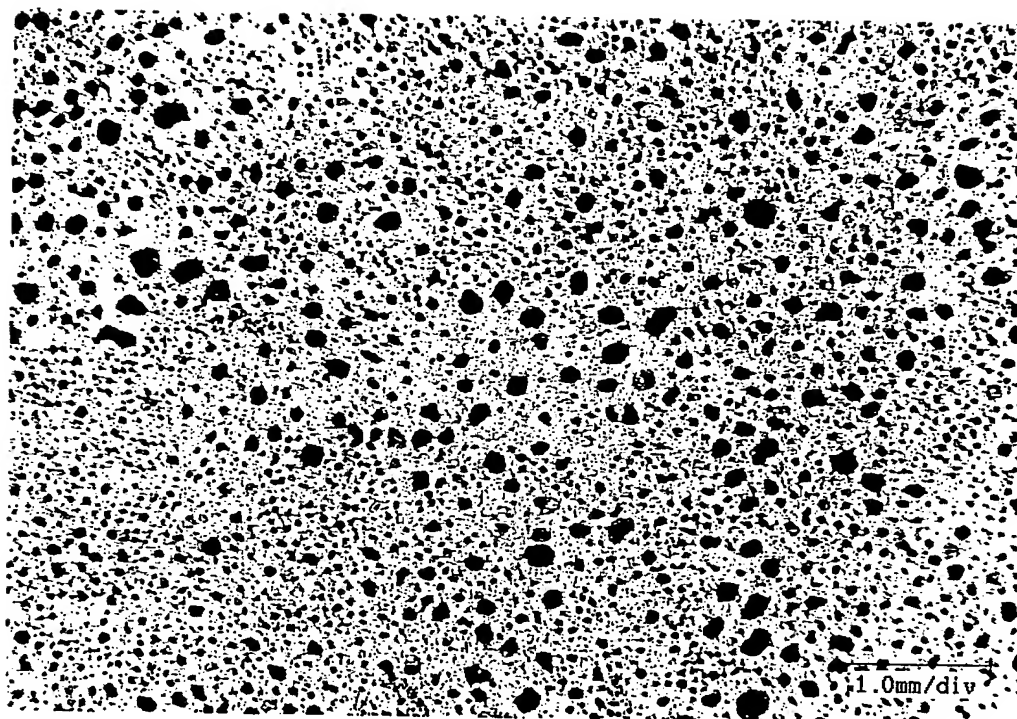


FIG. 19



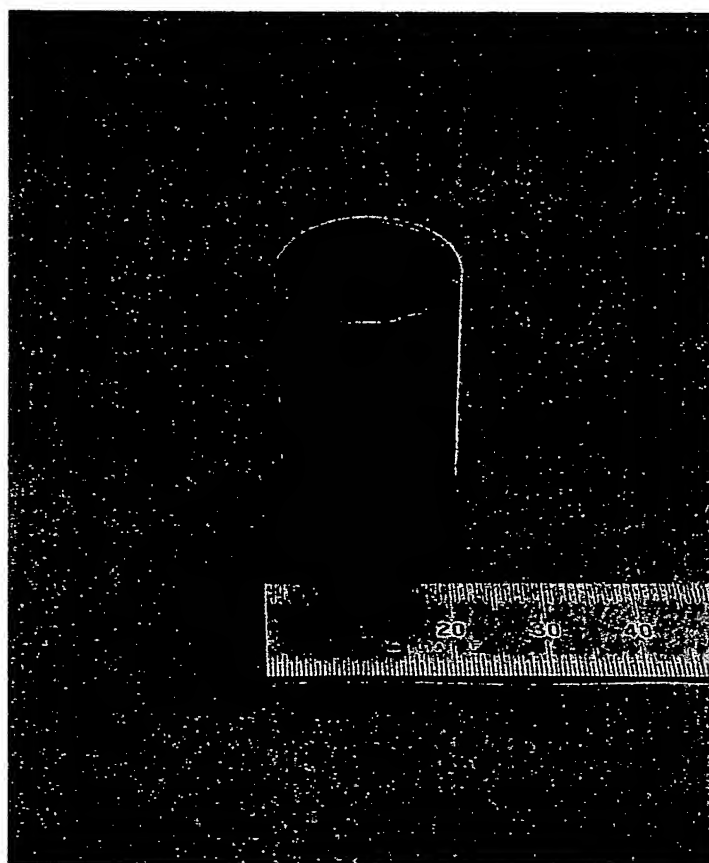
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FIG. 20



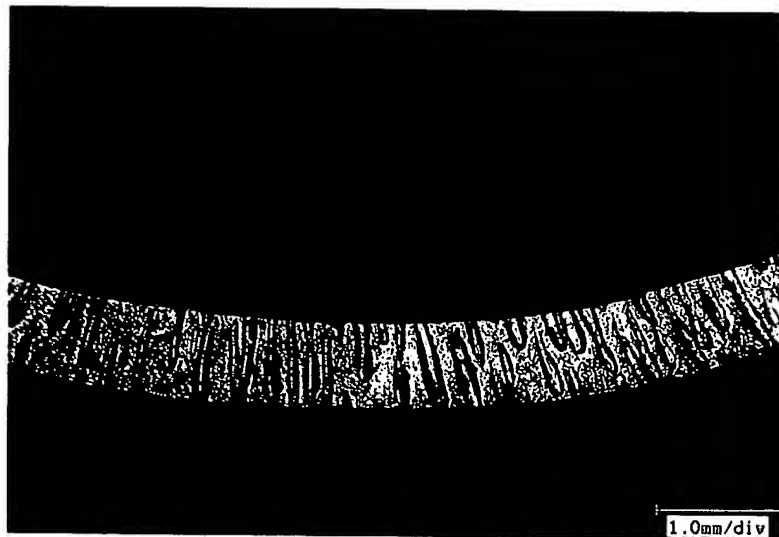
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FIG. 21



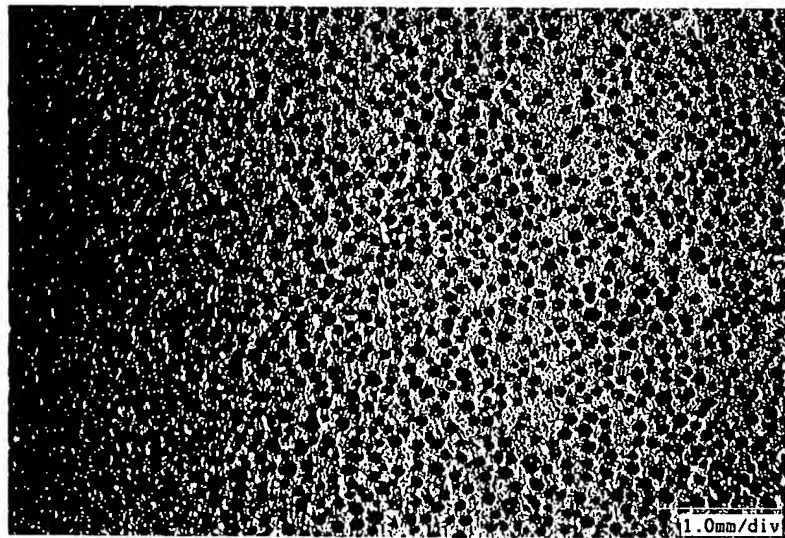
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FIG. 2.2



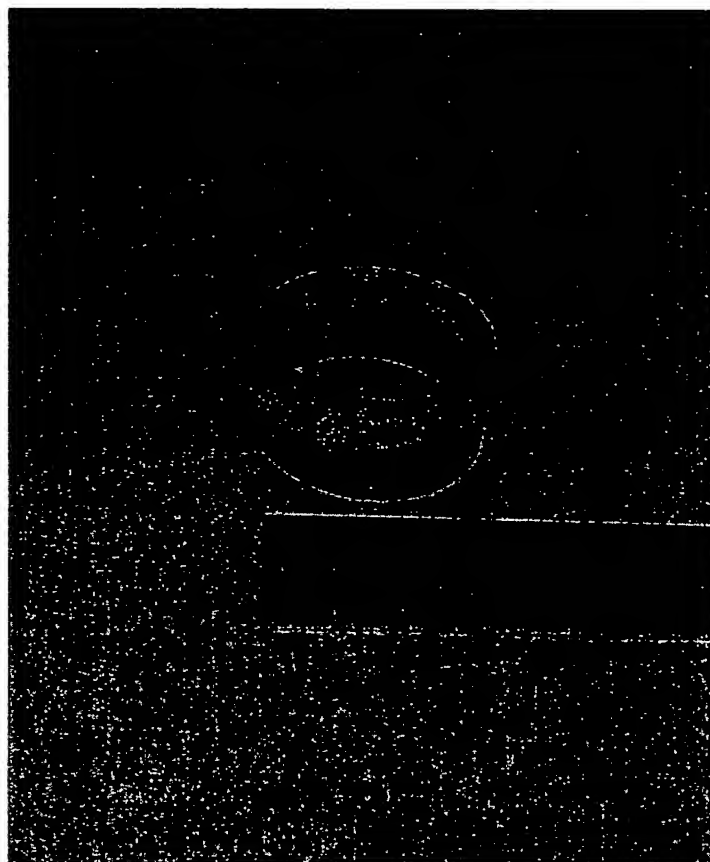
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FIG. 23



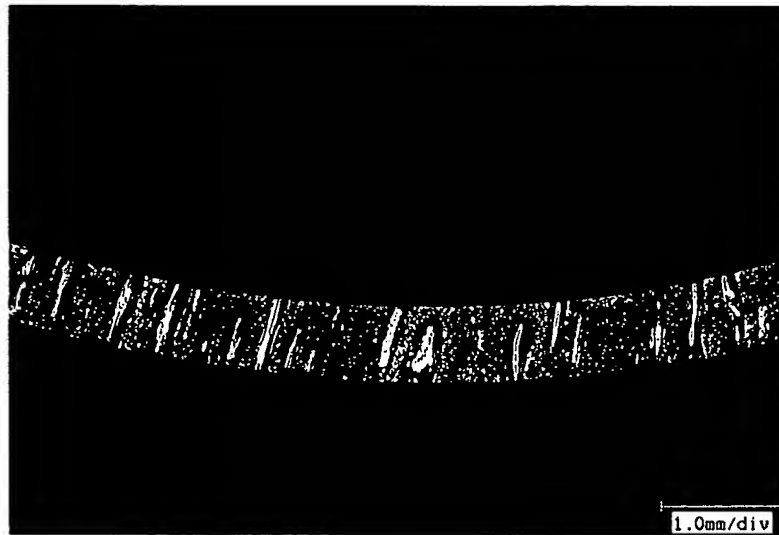
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FIG. 24



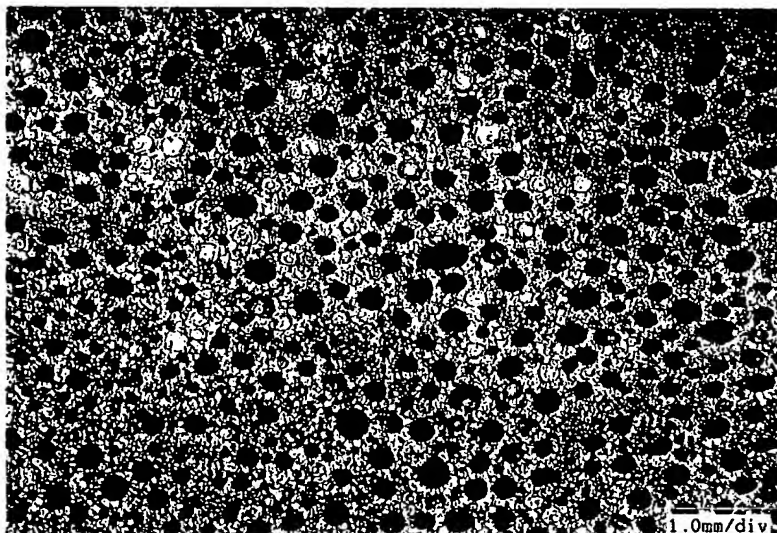
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FIG. 25



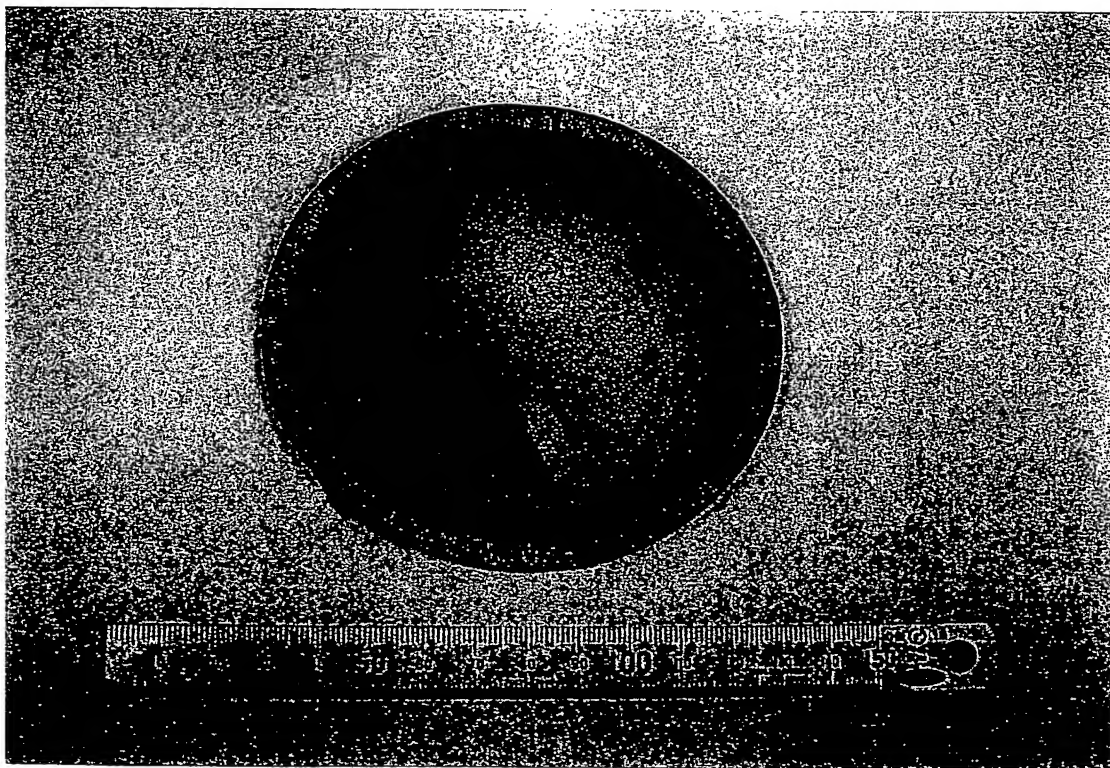
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FIG. 26



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FIG. 27



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